



P.S.R. ENGINEERING COLLEGE, SIVAKASI – 626 140.

(An Autonomous Institution, Affiliated to Anna University, Chennai)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE

VAC14CS02 – NEED OF CORE AND ADVANCED JAVA IN IT INDUSTRY

Course Objectives:

- To understand the general concepts core java.
- To understand technical concepts behind core and advanced java
- To learn the code development as per industry needs.
- To develop a trouble-free final project using both core and advanced java.

Course Outcomes: The Students will be able to

CO1: Know the concept of core java and advanced java.

CO2: Understand the logics of programming skills in java for company needs

CO3: Recognize efficient code structures

CO4: Identify code terminologies used for various projects.

CO5: Understand and develop efficient project in java.

Course Syllabus:

Day 1: Introduction

- Programming language Types and Paradigms
- Java Designing Goal
- Role of Java Programmer in Industry
- JVM –The heart of Java

Day 2: Basic Language Elements

- Lexical Tokens
- Identifiers
- Keywords
- Literals, Comments ,Primitive Datatypes
- Operators Assignments.

Day 3: Package

- Organizing Classes and Interfaces in Packages
- Package as Access Protection
- Defining Package
- CLASSPATH Setting for Packages
- Making JAR Files for Library Packages Import and Static Import Naming Convention For Packages.

Day 4: Database Programming using JDBC

- Introduction to JDBC
- JDBC Drivers & Architecture
- CURD operation Using JDBC
- Connecting to non-conventional Databases.

Day 5: Java Server Technologies Servlet – I

- Web Application Basics
- Architecture and challenges of Web Application
- Introduction to servlet
- Servlet life cycle